

IVANOVA, I.I.

Reaction of the thyroid gland of a golden hamster (*Mesocricetus auratus* W.) to a thyrotropic preparation and methylthiouracil.  
Dokl. AN SSSR no.1:239-240 My '65.  
(MIRA 18:5)

1. Saratovskiy gosudarstvennyy universitet im. N.G.Charnyshevskogo.  
Submitted September 17, 1964.

L 12924-66 (A)	EWI(1)/EWI(2)/EWI(3)/EWI(4)	IJP(c)	JD/MI/GG
ACC NR: AP6000182	SOURCE CODE: UR/GD/32/65/131/012/1450/1051		
AUTHOR: Iglitsyn, M. I.; Ivanova, I. I.; Konstantinova, G. Ye.; Rosaganova, M. G.; Pavlov, N. N.			
ORG: State Scientific Research and Design Institute of Rare Metals Industry (Gosudarstvennyy nauchno-issledovatel'skiy i proektnyy institut redkometatallicheskoy promyshlennosti)			
TITLE: Determination of nitrogen content in $\alpha$ -SiC by EPR technique			
SOURCE: Zavodskaya laboratoriya, v. 31, no. 12, 1965, 1450-1451.			
TOPIC TAGS: silicon carbide, EPR, Hall effect, nitrogen, single crystal			
ABSTRACT: An attempt was made to use EPR technique for determining nitrogen content in single crystals of hexagonal silicon carbide ( $\alpha$ -SiC). The method is based on determining the number of paramagnetic centers (nitrogen atoms) in a crystal sample by comparing its EPR spectrum with the spectrum of a reference sample ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ ). Both spectra were taken at the liquid nitrogen temperature with a PE 1301 radiospectrometer. The relationship between the concentration of the free charge carriers at room temperature as determined from the Hall effect ( $n_{\text{Hall}}$ ) and the concentration of non-compensated and non-ionized nitrogen centers at the liquid nitrogen temperature ( $N_{\text{EPR}}$ ) is: $N_{\text{EPR}} = 4.87 n_{\text{Hall}}$ . All the experimental results obtained with silicon carbide samples			
Card 1/2	UDC: 543.42		
Card 2/2			

IVANOVA, I.I.; SHAFORSTOVA, L.D.

Assay of some cobamides by the bioautographic method. Mikrobiologiya 32 no. 6:1087-1090 N-D '63 (MIRA 18:1)

1. Institut mikrobiologii Ak SSSR.

IVANOVA, I. K. MURATOV, M. V.

Geologists

Aleksandr Nikolayevich Mazarovich. Biul. Kom. chetv. per., No. 16, 1951

9. Monthly List of Russian Accessions, Library of Congress, June 1951, Uncl. <sup>2</sup>

IVANOVA, I.K.

Commission on the study of the Quaternary period in the Department  
of Geological and Geographical Sciences of the Academy of Sciences  
of the U.S.S.R. Biul. Kom. chet. per. no. 20:109-112 '55.  
(Geology, Stratigraphic) (MLRA 8:11)

ZOLOTAREV, M.A.; PIDOPLICHKO, I.C.; FEDOROV, P.V.; VASIL'YEV, V.N.; IVANOVA, L.K.; GROMOV, V.I.; SOKOLOV, D.S.; ZHIRMUNSKIY, A.M.; PARMUZIN, Yu.P.; PLYUSNIN, I.I.; KATS, N.Ya.; GRICHUK, V.P.; YEFREMOV, Yu.K.; MOSKVITIN, A.I.; LEBEDEV, V.D.; TEODOROVICH, G.I.; ZVORYKIN, K.V.; MIKHNOVICH, V.P.; GALITSKIY, V.V.; MAKEYEV, P.S.; NIKIFOROVA, K.V.; GORDEYEV, D.I.; YANSHIN, A.L.; DUMITRASHKO, N.V.; SHANTSER, Ye.V.; P'YAVCHENKO, N.I.; FEROV, K.K.; PIDOPLICHKO, I.G., doktor biologicheskikh nauk, professor.

Papers presented at the conference on the history of Quaternary flora and fauna in relation to the development of Quaternary glaciation.  
(MIRA 9:4)  
Trudy Ken. chetv. per. 12:129-189 '55.

1. Gidrometeosluzhba (for Zolotarev). 2. Zoologicheskiy institut AN USSR (for Pidoplichko). 3. Institut ekologii AN SSSR (for Fedorov). 4. Botanicheskiy institut AN SSSR (for Vasil'yev). 5. Komiissiya po izucheniyu chetvertichnogo perioda AN SSSR (for Ivaneva). 6. Institut geologicheskikh nauk AN SSSR (for Gromov, Yanshin, Nikiforova, Moskvitin). 7. Moskovskiy geologo-razvedochnyy institut imeni Ordzhonikidze (for Sokolov). 8. Akademiya nauk Belorusskoy SSR (for Zhirmunskiy). 9. Moskovskiy institut inzhenerov vodnogo khozyaystva (for Plyusnin). 10. Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta (for Yefremov, Parmuzin). 11. Moskovskiy gosudarstvennyy universitet (for Lebedev, Zvorykin). 12. Institut nefti AN SSSR (for Teodorovich). 13. Transproektkar'yer Ministerstva putey soobshcheniya (for Mikhnovich). 14. Vsesoyuznyy aerogeologicheskiy trest (for Galitskiy). 15. Sovet po izucheniyu proizvoditel'nykh sil AN SSSR (for Makeyev).

(Continued on next card)

ZOLOTAREV, M.A.----(continued) Card 2.

16. Laboratoriya gidro-geologicheskikh problem AN SSSR (for Gordeyev).
17. Institut geografii AN SSSR (for Dumitashko, Grichuk),  
(Paleontology) (Paleobotany) (Glacial epoch)

GORETSKIY, G.I., otv.red.; IVANOVA, I.K., otv. red.; MOSKVITIN, A.I.,  
otv. red.; DUMITRASHKO, N.V., red.; ZUBKOVICH, M.Y., red.;  
MARENINA, T.Yu., red. izd-ve; LAUT, V.G., tekhn.red.

[Materials from the All-Union Interdepartmental Conference on  
the Study of the Quaternary Period] Materialy Vsesoyuznogo  
mezhdunovodstvennogo soveshchaniya po izucheniiu chetvertich-  
nogo perioda. Moskva, Izd-vo Akad. nauk SSSR. Vol.2 [Qua-  
ternary sediments in the European part of the U.S.S.R.] Chet-  
vertichnye otlozheniya Evropeiskoi chasti SSSR. 1961. 502 p.  
(MIRA 14:5)

1. Vsesoyuznoye mezhdunovodstvennoye soveshchaniye po izuche-  
niyu chetvertichnogo perioda. Moscow, 1957. 2. Geologicheskiy  
institut AN SSSR ( for Moskvitin). 3. Institut geografii AN  
SSSR ( for Dumittrashko)  
(Geology, Stratigraphic)

SUKACHEV, V.N.; GROMOV, V.I.; NIKOLAYEV, N.I.; NIKIFOROVA, K.V.; IVANOVA, I.K.; SHANTSER, Ye.V.; POPOV, V.V.; GRICHUK, V.P.; FEDOROV, P.V.; GORETSKIY, G.I.

Vladimir Afans'evich Obruchev. Biul. Kom. chetv. per. no.21:3-4  
'57. (MLRA 10:6)  
(Obruchev, Vladimir Afanas'evich, 1863-1956)

AUTHORS: Gromov, V.I.; Ivanova, I.K. 11-58-5-14/16

TITLE: All-Union Interdepartmental Conference on the Study of the Quaternary Period (Vsesoyuznoye mezhdvudomstvennoye soveshchaniye po izucheniyu chetyertichnogo perioda)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 5, pp 145-146 (USSR)

ABSTRACT: The above mentioned conference was called by the Geologic-Geographic Section of the USSR Academy of Sciences and other related institutions. It took place in Moscow and Leningrad from May 16th to June the 2nd 1958. About 500 persons, representing 144 organizations participated in the Congress with 220 reports being read. Representatives of the Peoples' Republics were as follows: Rumania - E. Lityanu; Bulgaria - Zh. Gybylov; Poland - Ya. Dylik; Chechoslovakia - V. Ambroz and K. Zhebera; Democratic Republic Germany - I. Gellert; Hungary - M. Kretsov; and China - by Pey-Ven-Chzhun and Lyu-Tun-Shin, all professors.

AVAILABLE: Library of Congress

Card 1/1 1. Geology-Conference 2. Quaternary period

IVANOVA, I.K.

Geological conditions in the upper Paleolithic site Molodova 1  
(Baylova Ripa). Biul. Kom. chetv. per. no.22:122-126 '58.  
(Molodova--Geology) (MIRA 11:11)

IVANOVA, I.K.

In the commission for the study of the Quaternary period of the  
Department of Geological and Geographical Sciences of the Academy  
of Sciences of the USSR. Biul. Kom. chetv. per. no.22:143-145  
'58. (MIRA 11:11)

(Geology, Stratigraphic)

IVANOVA, I.K.

Geological characteristics of the region of Paleolithic settlement  
sites in the middle Dniester Valley. Trudy Kom.chatv.per.  
15:215-278 '59. (MIRA 13:5)  
(Dniester Valley--Geology)  
(Dniester Valley--Stone age)

BOYTSOVA, Ye.P.; VITTENBURG, P.V.; GANESHIN, G.S.; GROMOV, V.I.; ZUBAKOV, V.A.; IVANOVA, I.K.; KRASNOV, I.I.; LUNGRSGAUZEN, G.F.; NIKIFOROVA, K.V.; POKROVSKAYA, I.M.; CHEMEKOV, Yu.F.; EPSHTEYN, S.V.; YAKOVLEVA, S.V.

Sergei Aleksandrovich Iakovlev; obituary. Biul.Kom.chetv.per.  
no.23:97-101 '59. (MIRA 13:5)  
(Iakovlev, Sergei Aleksandrovich, 1879-1957)  
(Geology)

IVANOVA, I.K.

Commission on the Study of the Quaternary Period attached to the  
Department of Geological and Geographical Sciences of the U.S.S.R.;  
activity of the Commission in 1958-1959. Biul. Kom. chetv. per.  
no.25:129-133 '60. (MIRA 14:1)  
(Geology)

NIKIFOROVA, K.V., otv. red.; LAVRUSHIN, Yu.A., otv. red.; LUNGERSGAUZEN, G.F., red.; FEDOROVICH, B.A., red.; IVANOVA, I.K., red.; RAVSKIY, E.I., red.; MARENINA, T.Yu., red. izd-va; KASHINA, P.S., tekhn. red.; NOVICHKOVA, N.D., tekhn. red.

[Materials of the All-Union Conference on the Study of the Quaternary Period] Materialy Vsesoiuznogo soveshchaniia po izucheniiu chetvertichnogo perioda, Moscow, 1957. Moscow, Izd-vo Akad. nauk SSSR. Vol.3. [Quaternary sediments in the Asian part of the U.S.S.R.] Chetvertichnye otlozheniya Aziiatskoi chasti SSSR. 1961. 442 p. (MIRA 14:9)

1. Vsesoyuznoye soveshchaniye po izucheniyu chetvertichnogo perioda, Moscow, 1957.  
(Soviet Central Asia--Geology) (Siberia--Geology)

MOSKVITIN, A.I., otv. red.; GORETSKIY, G.I., otv. red. IVANOVA, I.K., otv. red.; DUMITRASHKO, N.V., red.; ZUBKOVICH, M.Ye., red.; MASENINA, T.Yu., red. izd-va; LAUT, V.G., tekhn. red.

[Materials of the All-Union Conference on the Study of the Quaternary period] Materialy Vsesoiuznogo soveshchaniia po izucheniiu chetvertichnogo perioda. Moskva, Izd-vo Akad. nauk SSSR. Vol.2. [Quaternary sediments of the European part of the U.S.S.R.] Chetvertichnye otlozheniya Evropeiskoi chasti SSSR. 1961. 502 p. (MIRA 14:8)

1. Vsesoyuznoye soveshchaniye po izucheniiu chetvertichnogo perioda, Moscow, 1957. 2. Geologicheskiy institut AN SSSR (for Moskvitin). 3. Institut geografii AN SSSR (for Dumitrasheko)  
(Geology)

IVANOVA, I.K.

Problems of the geology of the Paleolithic and history of the  
fossil man at the Sixth Congress of the International Association  
on Quaternary Research (INQUA) held in Poland. Biul. MOIP. Otd.  
geol. 37/n<sup>o</sup>. 5-35 S-0 '62. (MIRA 15:12)  
(Stone age)

GROMOV, V.I., otv. red.; IVANOVA, I.K., otv. red.; NEYSHTADT, M.I.,  
otv. red.

[Results of the 6th Congress of the International Associa-  
tion on Quaternary Research (INQUA)] Nauchnye itogi VI Kon-  
gressa Mezhdunarodnoi assotsiatsii po izucheniiu chetvertich-  
nogo perioda (INQUA). Moskva, Nauka, 1964. 132 p.

(MIRA 17:12)

1. Akademiya nauk SSSR. Komissiya po izucheniyu chetvertichnogo  
perioda.

ALFKOSEYEV, V.A.; IVANOVA, I.K.; KIND, N.V.; CHERNICH, A.P.

New data on the absolute age of the Late Paleolithic  
formations of the Molodova V site in the middle Dnieper Valley.  
Dokl. AN SSSR 156 no. 2:315-317 My '64. (MURA 17:2)

1. Predstavлено академиком V.N.Sukachevym.

BADER, O.N., otv. red.; IVANOVA, I.K., otv. red.; VELICHKO, A.A.,  
otv. red.

[Stratigraphy and periodization of the Paleolith of Eastern  
and Central Europe] Stratigrafiia i periodizatsiia paleolita  
Vostochnoi i Tsentral'noi Evropy; k VII Kongressu INQUA  
(SShA, 1965). Moskva, Nauka, 1965. 230 p. (MIRA 18:7)

1. Akademiya nauk SSSR. Komissiya po izucheniyu chetvertich-  
nogo perioda.

IVANOVA, I. K.

"The significance of fossil hominoid finds and of their culture for the stratigraphy of the Quaternary Period."

paper submitted for the 7th Intl Cong, Intl Assoc for Quaternary Research, Boulder and Denver, Colorado, 30 Aug-5 Sep 65.

SAKS, V.N., glav. red.; KERZHNIKOV, A.A., zao, glav. red.; BIRMAN, B.Y., red.; TROFIMOV, V.V., red.; VOLKOVA, V.S., red.; GROMOV, V.I., red.; LIVANOVA, I.K., red.; LAVRENT'YEV, A.I., red.; MARYYLOV, V.A., red.; NIKOLAEV, N.I., red.; STRELKOV, S.A., red.; TROITSKIY, S.L., red.; CHOCHIA, N.G., red.; SHANTSER, Y.V., red.; SHATSKIY, S.B., red.

[Basic problems in the study of the Quaternary period; for the 7th Congress of INQUA, U.S.S.R., 1965] Основные проблемы изучения эпохи четвертичного периода; к 7-му Конгрессу INQUA (СССР, г. Днепропетровск, Надежда, 1965). (ЧИА 18:9)

1. Akademika nauch SSSR. Sibirs'kiy gosudarstvennyi Institut geologii, geofiziki. 2. Akademicheskaya Akademiya SSSR (for Saks).

SUKACHEV, V.N.; BOGDANOV, A.A.; IVANOVA, I.K.; LAZUKOV, G.I.; NIKOLAYEV, N.I.;  
YAKUSHOVA, A.F.; GELLER, S.Yu.; GRICHUK, V.P.; KOLESNIK, S.V.;  
SOKOLOV, N.N.; LICHKOV, B.L.; GORETSKIY, G.I.; SHCHUKIN, I.S.;  
BYKOV, V.D.; SAUSHKIN, Yu.G.; GLAZOVSKAYA, M.A.; GVOZDETSKIY, N.A.;  
TUSHINSKIY, G.K.

Konstantin Konstantinovich Markov's role in the creation and development of the paleogeography of the anthropogenic (the Quaternary) period; on his 60th birthday and the 40th anniversary of scientific work. Izv. Vses. geog. ob-va 97 no.4:377-379 Jl-Ag '65.

(MIRA 18:8)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc.

M.

Abs Jour : Ref Zhur s. Biol., No 4, 1958, 15594

Author : I.K. Ivanova

Inst :

Title : The Effect of Cultivation Conditions on the Yield and  
Seed Quality of Potatoes in the Southern Rayons of  
Stalinskaya Oblast'.  
(Vliyaniye usloviy vyrashchivaniya na urozhay i semen-  
nyye kachestva kartofelya v yuzhnykh rayonakh Stalingra-  
dskoy oblasti).

Orig Pub : Inform. byul. Gos. komis. po sortoispyt. s.-kh. kul'tur  
pri M-ve s. kh. SSSR, 1957, No 1, 18-21

Abstract : At the Primorsk Variety Site in Stalinskaya Oblast'  
research was conducted for four years to explain the ef-  
fect of agrotechnical methods on the curing of potatoes.  
A large number of varieties (171-159) took part in the  
tests. The trials were made at an irrigated plot and

Card 1/2

IVANOVA, I.K.

Second Conference on the Problems of Stratigraphy and Periodization of the Paleolith. Biul. Kom. chetv. per. no.29:196-199  
'64. (MIRA 17:8)

IVANOVA, Irina Konstantinovna; DEBETS, G.F., otv. red.

[Geological age of fossil man; for the 7th Congress of  
the INQUA (U.S.A., 1965)] Geologicheskii vozrast isko-  
paemogo cheloveka; k VII Kongressu INQUA (SShA, 1965).  
Moskva, Nauka, 1965. 189 p. (MIRA 18:7)

GROMOV, V.I., otv. red.; IVANOVA, I.K., otv. red.; MARIKOV, E.K.,  
otv. red.; NEYSHTADT, M.I., otv. red.; RAVSKIY, E.I.,  
otv. red.

[Quaternary period and its history; for the Seventh  
Congress of the INQUA held in the U.S.A., 1965] Chetvertich-  
nyi period i ego istoriya; k VII Kongressu INQUA (SShA, 1965).  
Moskva, Nauka, 1965. 221 p. (MIRA 18:5)

1. Akademiya nauk SSSR. Komissiya po izucheniyu chetvertich-  
nogo perioda.

IVANOVA, I.K.

Geology of the Mousterian site Molodova I (Bailova Ripa) in  
the middle Dniester Valley. Biul. Kom. chetv. per. no.24:  
118-129 '60. (MIRA 16:7)

(Dniester Valley--Geology, Stratigraphic)

EBERZIN, A. G.; NEVESSKAYA, L. A.; SHANTSER, Ye. V.; LAVRUSHIN, Yu. A.;  
GROMOV, V. I.; IVANOVA, I. K.

Resolution of the joint plenum of the Permanent Commissions  
on Neogene and Quaternary Systems, Attached to the Interde-  
partmental Stratigraphic Committee and the Commission on the  
Study of the Quaternary Period of the Academy of Sciences of  
the U.S.S.R., on the position of the boundary between the  
Neogene and Quaternary systems. Trudy Kom. chetv. per. 20:  
182-184 '62. (MIRA 16:1)

1. Predsedatel' postoyannoy komissii po neogenovoy sisteme pri Mezhvedomstvennom stratigraficheskem komite (for Eberzin).
2. Ispolnyayushchiy chyazannosti Uchenogo sekretarya postoyan-  
noy komissii po neogenovoy sisteme pri Mezhvedomstvennom strati-  
graficheskem komite (for Nevesskaya). 3. Predsedatel' posto-  
yanoy komissii po chetvertichnoy sisteme pri Mezhvedomstvennom  
stratigraficheskem komite (for Shantser). 4. Uchenyy sekre-  
tar' postoyannoy komissii po chetvertichnoy sisteme pri Mezhve-  
domstvennom stratigraficheskem komite (for Levrushin).
5. Zamestitel' predsedatelya Komissii po izucheniyu chetvertich-  
nogo perioda AN SSSR (for Gromov). 6. Uchenyy sekretar' Komissii  
po izucheniyu chetvertichnogo perioda AN SSSR (for Ivanova).

(Geology, Stratigraphic)

IVANOVA, I.K., otv. red.; KIND, N.V., otv. red.; CHERDYNTSEV, V.V.,  
otv. red.; LAVRUSHIN, Yu.A., red.izd-va; ZUDINA, V.I.,  
tekhn. red.

[Absolute geochronology of the Quaternary] Absoliutnaia geo-  
khronologija chetvertichnogo perioda. Moskva, Izd-vo AN  
SSSR, 1963. 158 p. (MIRA 16.12)

1. Akademija nauk SSSR. Komissiya po izucheniju chetvertich-  
nogo perioda.

(Geological time)

IVANOVA, I.K.; CHERNYSH, A.P.

Absolute age of the Upper Paleolithic (Solutrean, Gravettian type) of the Dniester Valley according to radiocarbon analysis data. Dokl. AN SSSR 148 no.2:410-413 Ja '63. (MIRA 16:2)

1. Predstavleno akademikom V.N. Sukachevym.  
(Dniester Valley—Geology, Stratigraphic)  
(Radiocarbon dating)

GURSKIY, Yevgeniy Ivanovich; YERSHOVA, Vera Vasil'yevna; IVANOVA, I.L.  
retsenzent; KIR'YANOVA, V.M., retsenzent; MAKHMOVSKAYA, A.N.,  
retsenzent; KOLOBOV, A.M., retsenzent; CHERKAS, L.A.,  
retsenzent; SHERDYUKOVA, S.I., red.

[Fundamentals of linear algebra and analytic geometry] Osnovy  
lineinoi algebry i analiticheskaiia geometrii. Minsk, Vys-  
shaia shkola, 1965. 262 p. (MIRA 18:9)

25(2)

SOV/117-59-5-10/30

AUTHOR: Ivanova, I.M., Engineer

TITLE: The Modernization of a Cantilever Milling Machine

PERIODICAL: Mashinostroitel', 1959, Nr 5, pp 16-17 (USSR)

ABSTRACT: The article contains information on the modernization of the Reineker "VF-2" milling machine at the Kolomenskiy tsel-lovozostroitel'nyy zavod (Kolomna Diesel Locomotive Plant). The modernization consists in the following changes. The front spindle rest is supported by an adjustable roller bearing (Figure 1). A thrust bearing is used for taking up the axial thrust. The plain bearings in the speed box are replaced by roller bearings and these bearings are lubricated by oil, sprayed by special rings. The change gear design is altered (details given), etc. As a result, the work efficiency improved, the setting and maintenance time was reduced, the machining accuracy improved. There are 2 diagrams.

Card 1/1

IVANOVA, I.M., inzh.

Modernizing rolling mills. Mashinostroitel' no.3:5  
Mr '60. (MIRA 13:6)  
(Rolling mills--Technological innovations)

IVANOVA, I.M.

Modernization of a hydraulic press. Mashinostroitel' no.7:17 Jl  
'60. (MIRA 13:7)

(Hydraulic presses--Technological innovations)

IVANOVA, I.M.

The shortcomings of a machine tool have been eliminated. Mashino-  
stroitel' no.11:13 N '60. (MIRA 13:10)  
(Grinding machines)

S/141/60/003/005/026/026  
E140/E335

AUTHORS: Ivanova, I.M., Ketkov, Yu.L. and Yampol'skaya, T.S.

TITLE: On the Existence of Barker Codes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,  
Radiofizika, 1960, Vol. 3, No. 5, pp. 911 - 913

TEXT: Given the matrix on p. 911, where each element has the  
value  $\pm 1$ , a Barker code is given by the first line  $a_1$ ,

$a_2, \dots, a_n$  of the matrix, if conditions 1) and 2) :

1)  $S(A_i) = 0 \quad (i = 1, 2, \dots)$  ;

2)  $|S(N_i)| = 1 \quad (i = 0, 1, 2, \dots)$

are satisfied, where the notation  $S(N_i)$  indicates the sum  
of all elements in the diagonal  $N_i$ . Several properties of  
the matrix are discussed, after which it is shown that for  
Card 1/4

S/141/60/003/005/026/026  
E140/E335

On the Existence of Barker Codes

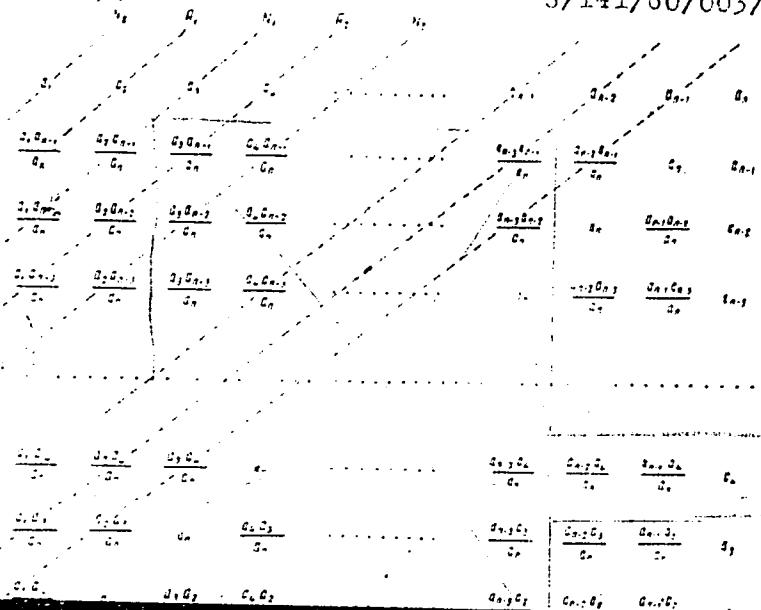
$n = 4k + 2$  ( $k = 1, 2, \dots$ ) the Barker code does not exist. It has also been found that Barker codes for  $n = 4k + 1$ ,  $n > 13$ , and for  $n = 8, 12, 16, 20$ , do not exist. The question of existence of Barker codes for the case  $n = 4k$ ,  $k > 5$  remains open. There is 1 Soviet reference. ✓

Card 2/4

Card 3/4

3/141/60/003/005/026/026  
E140/E335

On the Existence of  
Barker Codes



3/14/60/003/005/026/026  
E:36/3555

On the Existence of Barker Codes

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-tehnicheskiy  
institut pri Gor'kovskom universitete  
(Scientific Research Physico-technical  
Institute of Gor'kiy University)

SUBMITTED: June 4, 1960

L 47080-66  
ACC NR: AP6029042

SOURCE CODE: VR/0413/66/000/014/0058/005B

21  
B

INVENTOR: Ivanova, I. M.; Fedorov, V. N.; Yudashkin, A. G.

ORG: none

TITLE: Slot-type gas burner. Class 24, No. 183871

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 58

TOPIC TAGS: gas burner, gas combustion

ABSTRACT: The proposed gas burner contains perforated pipes for the gas supply which are located above a longitudinal exit slot of an air duct. In order to ensure a con-

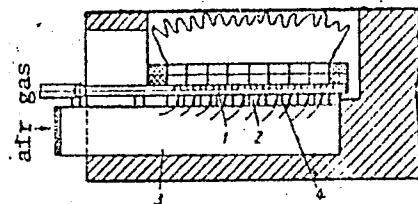


Fig. 1. Gas burner

1 - Perforated tubes; 2 - exit slot;  
3 - air duct; 4 - guide vanes.

Card 1/2

UDC: 662.951.2

IVANOVA, I.M.

Mechanizing adjusting displacements during the modernization of  
equipment. Mashinostroitel' no.8:15-16 Ag '62. (MIRA 15:8)  
(Technological innovations)

IVANOVA, I.M.

Modernization of the gear-shaping machine. Mashinostroitel'  
no.11:11-12 N '62. (MIRA 15:12)  
(Gear shaping machines)

OZEROVA, M.I.; KOCHANOV, N.N.; IVANOVA, I.N.

Equilibrium in systems consisting of isomorphic schoenite-type components, and a thermographic study of double salts and their isomorphic mixtures. Vest. Mosk un Ser. 2: Khim. 15 no.4:33-35 Jl-Ag '60.  
(MIRA 13:9)

1. Kafedra obshchey khimii Moskovskogo universiteta.  
(Systems (Chemistry)) (Salts)

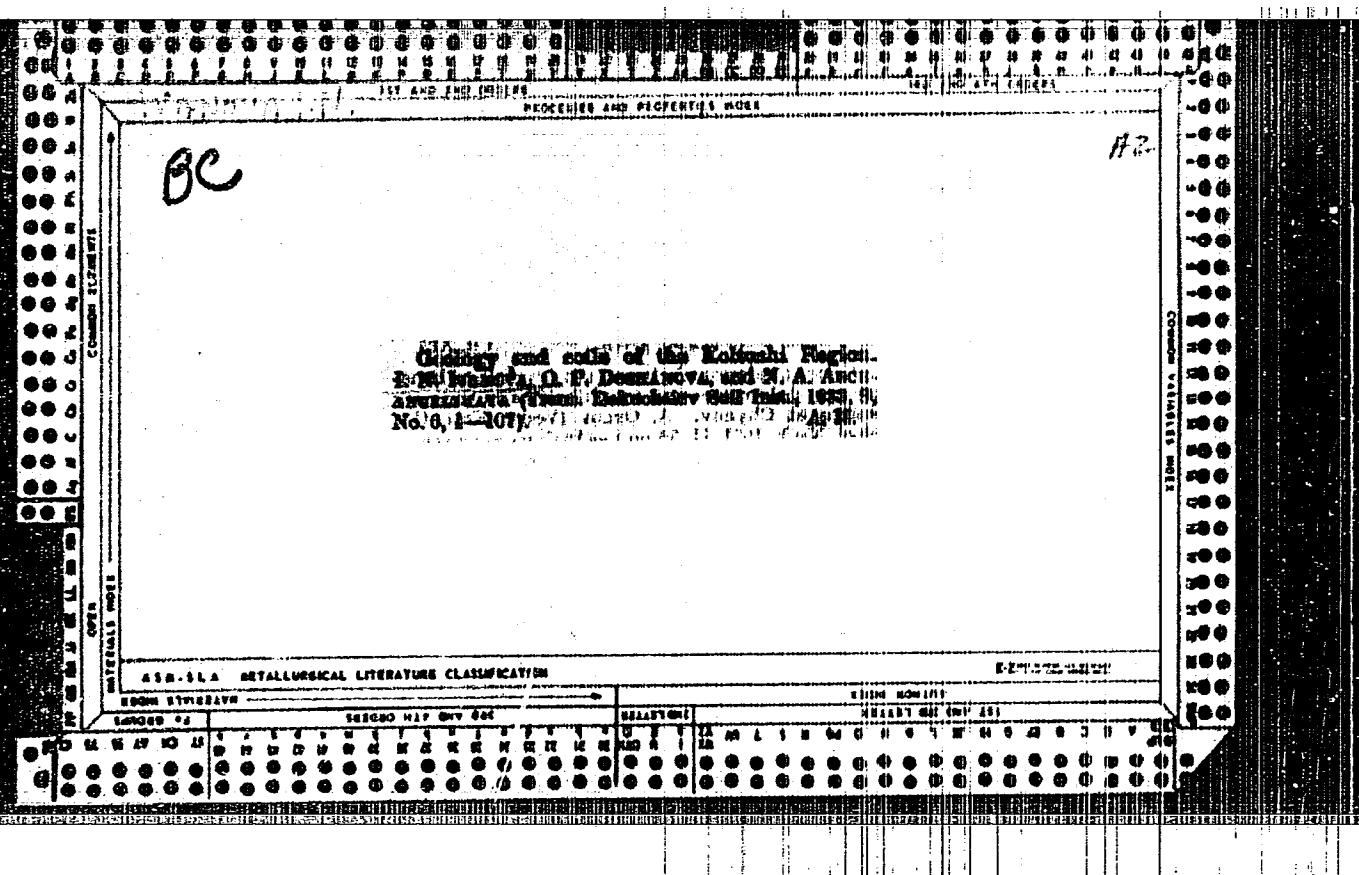
KOLOMENSKIY, N.V.; KOMAROV, I.S.; Prinimali uchastiye: IVANOVA,  
I.N.; DROZODV, S.V.; ZAKHAROVA, N.A., red.

[Engineering geology] Inzhenernaia geologija. IAroslavl',  
Vysshiaia shkola, 1964. 480 p. (MIRA 17:6)

IVANOVA, I.K.; OSEPEV, V.I., M.I.

Solubility in the system  $(\text{LiH}_4)_2\text{Na}(\text{SO}_4)_2 - (\text{LiH}_4)_2\text{Mg}(\text{SO}_4)_2 - \text{Li}(\text{SO}_4)_2 - \text{H}_2\text{O}$  at  $25^\circ$ . Zhur. neorg. khim. 9 no.8:1989-1990 A; 1eL.

(178A 17:11)



KOLOMENSKIY, N.V.; KOMAROV, I.S.; IVANOVA, I.H.

The influence of glauconite on the physical and industrial  
properties of rocks. Trudy MGRI no.28:113-130 '55.  
(Glauconite) (MLRA 8:6)

IVANOVA, I. N.

Organic Chemistry

Dissertation: "Synthesis and Transformations of Heterocyclic Acetylenic Gamma-Glycols." Cand Chem Sci, Inst of Organic Chemistry imeni N. D. Zelinskiy, Acad Sci USSR, Oct-Dec 1953. (Vestnik Akademii Nauk, Moscow, Mar 54)

SO: SUM 213, 20 Sept 1954

38295 IVANOVA, I. N.

O probe s fenolsul'fonftaleinom. Sov. meditsina, 1949. No 12, s. 28-29

IVANOVA, I. N.

IVANOVA, I. N.: - "Sanitary enlistment of dispensary patients with hypertonic disease". Moscow, 1955. Acad Med Sci USSR. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis', No. 40, 1 Oct 55

SHARLAY, I.V.; IVANOVA, I.N.; BAKHTIN, Yu.K.

Pathogenesis of recurrent infectious hepatitis in children. Vop.  
okh.mat.i det. 8 no.3:ll-15 Mr '63. (MIRA 16:5)

1. Iz kafedry infektsionnykh bolezney u detey (zav. -- prof.  
A.T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo  
instituta (dir. Ye.P. Semenova).  
(HEPATITIS, INFECTIOUS)

OZEROVA, M.I.; IVANOVA, I.N.

Solubility in the system  $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2$  -  $(\text{NH}_4)_2\text{Ni}(\text{SO}_4)_2$  -  $\text{H}_2\text{O}$ . Vest. Mosk. un. Ser. 2: Khim. 18 no.3:64-65 My-Je '63.  
(MIRA 16:6)

1. Kafedra obshchey khimii Moskovskogo universiteta.  
(Iron ammonium sulfates)  
(Nickel ammonium sulfate)  
(Solubility)

IVANOVA, I.N.; OZEROVA, M.I.; YEGOROVA, Ye.I.

Solubility and solid phases in the system  $(\text{NH}_4)_2\text{Mg}(\text{SO}_4)_2 - (\text{NH}_4)_2\text{Mg}(\text{SO}_4)_2 - \text{H}_2\text{O}$  at 25°. Zhur.neorg.khim. 8 no.4:977-980 Ap '63.  
(MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet, kafedra ogranichennykh khimii.  
(Systems (Chemistry)) (Phase rule and equilibrium)  
(Sulfates)

IVANOVA, I. P.

"Changes in Nitrogenous Substance During Seed Stratification."  
Cand Biol Sci, Inst of Plant Physiology imeni Timiryazev, 29 Dec 54. (R, 21 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

U S S R .

Nitrogen metabolism in stratification of seeds. <sup>23</sup>V  
B. G. Gavesh, N. N. and I. P. Tsvetova. Dokl. Akad. Nauk SSSR, 198, 511-514 (1971). The process of seed stratification consisting of breaking the seeds for 6 days in stratum (then continuing of keeping the seeds for 6 days in stratum) is followed by the following changes in N atoms and at 100% relative humidity 20% after 10 days. After 20 days and 100% relative humidity 20% after 30 days. After 30 days, in the first stage the experimental treatment and control groups differ, during the experimental treatment marked increase in the intensity of activity in that period. Similar marked increase in the intensity of activity between the 20th and 30th days of stratification. The experiments were made with diamonds. L. M. Kosolapoff

BABIV, V.I.; IVANOVA, I.P.

Application of high-speed motion-picture photography in  
studying the motion and burning of coal particles. Usp.  
nauch.fot. 9:220-222 '64.

(MIRA 18:11)

05869  
SOV/78-4-11-22/50

5(2)

AUTHORS: Abrikosov, N. Kh., Poretskaya, L. V., Ivanova, I. P.

TITLE: Investigation of the System Antimony - Tellurium

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,  
pp 2525 - 2530 (USSR)

ABSTRACT: The phase diagram of the system Sb - Te was investigated by various scientists several years ago. The data disagreed. Publications by N. S. Konstantinov, and V. I. Smirnov (Ref 6), S. A. Semiletov (Ref 10), and F. I. Vasenin (Ref 12) are mentioned in a short survey (Refs 1-12). The method of melt preparation is briefly described, and it is especially pointed out that the melts are equilibrated not before they have been annealed for several hours at temperatures somewhat below the solidus. Thermal analysis was made by means of N. S. Kur-nakov's pyrometer; the samples were sealed in Stepanov ampules. The thermoelectric force was measured on a PPTV-1 potentiometer. Figure 1 shows the phase diagram according to data available so far in publications; figure 2 shows the diagram corrected by the authors. The solid solution of Te in Sb the  $\alpha$ -phase, attains a maximum content of Te (1%) at 500°. The

Card 1/2

## Investigation of the System Antimony - Tellurium

05869  
SOV/78-4-11-22/50

homogeneous range of the  $\beta$ -phase is found within the range 18-38% of Te. The  $\beta$ -phase is formed by maximum saturation with Sb due to a peritectic reaction at  $550^{\circ}$ , by a peritectic reaction at  $549^{\circ}$  on maximum saturation with Te, and at 32% of Te it passes through a minimum in the melting diagram at  $538^{\circ}$ . Melts in the homogeneous range of the  $\beta$ -phase exhibit a distinct polyhedral structure (Fig 3a). The  $\gamma$ -phase resulting from peritectic reaction at  $558^{\circ}$  is found between 42-55% of Te. The  $\delta$ -phase ( $Sb_2Te_3$ ) crystallizes directly out of the liquid at  $616^{\circ}$  and a Te content of 60.3%, and contains 61.1% of Te which is a little more than would correspond with the stoichiometric ratio. The positive kind of conductivity found also by other scientists is to be ascribed to this tellurium excess (Fig 5). The  $\beta$ -,  $\gamma$ -, and  $\delta$ -phase were also shown by X-ray analysis (Fig 4, Table 1). There are 5 figures, 1 table, and 13 references, 6 of which are Soviet.

SUBMITTED: July 24, 1958  
Card 2/2

BABIY, V.I.; IVANOVA, I.P.

Determining the coefficient of resistance of motion of burning  
coal dust. Inzh.-fiz. zhur. 4 no.1:50-57 Ja. '61. (MIRA 14:4)

1. Vsesoyuznyy teplotekhnicheskiy institut imeni F.E.Dzerzhinskogo,  
Moskva.

(Furnaces--Aerodynamics) (Coal, Pulverized)

IVANOVA, I.P.

Some supplementary data on the problem of depression of  
α-rhythm as an electrographic expression of basic nerve  
processes. Biul. eksp. biol. i med. 57 no.1:3-7 Ja. '64.  
(MIRA 17:10)

1. Sektor fiziologii (zav. - dotsent B.S. Gippenrayter)  
TSentral'nogo nauchno-issledovatel'skogo instituta fizi-  
cheskoy kul'tury (dir. N.G. Ozolin). Predstavlena deyst-  
vitel'nym chlenom AMN SSSR V.V. Parinym.

MINENKO, V.I., kand.khim. nauk, dotsent; IVANOVA, I.S., inzh.

Determining the electromotive force in systems composed of  
solid magnesium oxides and silicon. Izv. vys. ucheb. zav.;  
chern. met. 2 no.3:5-8 Mr '59. (MIRA 12:7)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovano  
kafedroy obshchey khimii Khar'kovskogo inzhenerno-ekonomicheskogo  
instituta.

(Electromotive force) (Silicates)

SHKLYAR, Tat'yana Nikolayevna; IVANOVA, I.S., red.; SIDOROVA, V.I.,  
red.izd-va; MULIKOVA, I.F., tekhn.red.

[Practical manual in general phytopathology] Fraktikum po  
obshchei fitopatologii. Moskva, Gos.izd-vo "Vysshiaia shkola,"  
1960. 175 p.  
(Plant diseases)

IVANOVA, L.S., uchitel' nitsa

Abilities and skills acquired by students in raising plants. Biol.  
v shkole no.5:50-52 S-O '60. (MIRA 13:11)

1. Srednyaya shkola No.4 g Pushkino, Moskovskoy oblasti.  
(Agriculture—Study and teaching)

IVANOVA, I.S., inzh.

Production of sulfate pulp from lumbering wastes. Bum.prom.  
35 no.2:13-15 F '60. (MIRA 13:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tsell-  
yuloznoy i bumazhnoy promyshlennosti.  
(Woodpulp)

KOSAYA, G.S.; IVANOVA, I.S.

Sulfate rayon pulp from hardwood. Bum.prom. 35 no.10:11-12 0  
'60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut bumazhnoy  
promyshlennosti.

(Woodpulp)

YEVGENOVA, M.V., kand.med.nauk; MOLOKANOV, K.P., prof., doktor med.nauk;  
IVANOVA, I.S., mledskiy nauchnyy sotrudnik

Sanatorium climatic treatment of pneumoconiosis and coniotuberculosis in the maritime region of the southern shore of the Crimea. Bor'ba s sil. 5:328-332 '62. (MIRA 16:5)

1. Institut gigiyeny truda i professional'nykh zabolеваний AMN SSSR i sanatorii Yuzhnogo berega Kryma "Gornyyak", "Shakhter", "Livadiya".  
(LUNGS—DUST DISEASES) (CRIMEA—HEALTH RESORTS, WATERING PLACES, ETC.)

IVANOVA, I.S.; KONOVA, Yu.V.; NOVIKOV, S.S.

Syntehses of methyl ester of  $\alpha$ -nitrocrotonic acid. Izv. AN SSSR. Otd. khim.  
nauk no. 9:1677-1679 S '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.  
(Chrotonic acid)

IVANOVA, I.S.; KONNOVA, Yu.V.; BULATOVA, N.N.; NOVIKOV, S.S.

Addition of 3,3,5,5-tetranitropiperidine to  $\alpha,\beta$ -unsaturated compounds.  
Izv. AN SSSR. Otd. khim. nauk no. 9:1686-1688 S 192. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Piperidine) (Unsaturated compounds)

NOVIKOV, S.S.; BABIYEVSKIY, K.K.; SHEVELEV, S.A.; IVANOVA, I.S.; FAYNZIL'BERG, A.A.

Synthesis of 1,1,1,3-tetranitro-2-alkylpropanes and their cleavage  
by the action of bases. Izv. AN SSSR. Otd. khim. nauk no. 10:1853-1855  
0 '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Propane) (Bases (Chemistry))

IVANOVA, I.S.; BULATOVA, N.N.; NOVIKOV, S.S.

Addition of tetrinitroalkanes to  $\alpha,\beta$ -unsaturated ketones. Izv. AN SSSR.  
Otd. khim. nauk no. 10:1856-1858 0 '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.  
(Paraffins) (Ketones)

IVANOVA, I.S.; BULATOVA, N.N.; NOVIKOV, S.S.

Ethylenedinitrodiamine in the reaction of addition to  $\alpha,\beta$ -unsaturated ketones. Izv. AN SSSR. Otd. khim. nauk no. 10:1858-1859 0 62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Ethylenediamine) (Keytones)

42650

S/062/62/000/011/015/021  
B117/B101

11.1260

AUTHORS: Ivanova, I. S., Konnova, Yu. V., and Novikov, S. S.  
TITLE: Addition of gem-dinitroalkanes to unsaturated nitro-compounds  
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 11, 1962, 2078-2079

TEXT: The nucleophilic addition of 1,1-dinitropropane, 1,1-dinitrobutane to  $\beta,\beta,\beta$ -trinitroethyl acrylate was examined in order to ascertain the reactivity of the double bond in acryl esters of nitro-alcohols. The reaction at room temperature in methanol and in the presence of catalytic amounts of sodium methylate resulted in the following compounds: (1) The 2,2,2-trinitroethyl ester of  $\gamma,\gamma$ -dinitrocaproic acid was obtained from 1,1-dinitropropane and 2,2,2-trinitroethyl acrylate; m.p. 53-54°C; yield 35.1%; (2) the 2,2,2-trinitroethyl ester of  $\gamma,\gamma$ -dinitroenanthic acid was obtained from 1,1-dinitrobutane and 2,2,2-trinitroethyl acrylate; m.p. 69-70°C, yield 17.3%. For comparison, the same gem-dinitroalkanes were added to 1-nitroalk-1-enes, whereby the following compounds were obtained for the first time: (1) 1,3,3-trinitro-2-methyl pentane, ✓

Card 1/2

IVANOVA, I. S.; BOGDANOVA, G. P.; ALEKSEYeva, T. A.; NOVIKOV, S. S.

Synthesis of dinitrodiazodicarboxylic acids. Izv. AN SSSR Otd.  
khim. nauk no.12:2236-2238 D '62. (MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Acids, Organic) (Diazocompounds)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220005-6

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220005-6"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220005-6

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220005-6"

L 37208-66 EWT(m)/EWP(j) JW/RM

ACC NR: AP6014413

SOURCE CODE: UR/0062/66/000/004/0753/0755

AUTHOR: Novikov, S. S.; Ivanova, I. S.; Bogdanova, G. F.; Alekseyeva, T. A.; Konnova, Yu. V.

ORG: Institute of Organic Chemistry im. N. S. Zelinakiy Academy of Sciences SSSR (Institut organicheskoy khimii, Akademii nauk SSSR)

TITLE: Synthesis and certain chemical conversions of nitro- and nitrazadicarboxylic acids

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1966, 753-755

TOPIC TAGS: organic nitro compound, aliphatic carboxylic acid, chemical reaction, dissociation constant, heat resistance

ABSTRACT:  $\gamma$ -nitro- and  $\gamma$ -nitro- $\gamma$ -methylpimelic acid were synthesized from methyl acrylate and nitromethane (nitroethane). The dihydrazides and the dichloroanhydrides were prepared. Introduction of the nitro groups in the  $\gamma$ -position of pimelic acids reduced their thermal stability. Dissociation constants determined by potentiometric titration showed that introduction of 1 or 2 nitro groups in the  $\gamma$ -position of pimelic acid increased acid strength. Acid strength increases in the following

UDC: 542.91 547.232

Card 1/2

L 37208-66

ACC NR: AP6014413

series: pimelic,  $\gamma$ -nitro- $\gamma$ -methylpimelic,  $\gamma$ -nitropimelic, 3-nitrazapentane dicarboxylic acid-1,5, and  $\gamma$ ,  $\gamma$ -dinitropimelic. Orig. art. has: 1 table and 2 equations.

SUB CODE: 07/ SUBM DATE: 25Aug65/ ORIG REF: 002/ OTH REF: 003

Card 2/2M CP

L 46199-66 EWT(m)/EWP(j) WW/JW/RM  
ACC NR: AP6025395 SOURCE CODE: UR/0062/66/000/007/1138/1145  
37  
B

AUTHOR: Novikov, S. S.; Ivanova, I. S.

ORG: Institute of Organic Chemistry, Academy of Sciences, SSSR (Institut  
organicheskoy khimii im. N. D. Zelinskiy, Akademii nauk SSSR)

TITLE: Addition kinetics of trinitromethane to acrylic acid in water

SOURCE: AN SSSR. Izv. Ser khim, no. 7, 1966, 1138-1145

TOPIC TAGS: trinitromethane, acrylic acid, addition reaction, addition  
kinetics, addition rate, NITROMETHANE, SPECTROPHOTOMETRY.  
Acrylics

ABSTRACT: The addition kinetics of trinitromethane (TNM) to acrylic acid (AC) in water has been studied spectrophotometrically from the changes in TNM and 4,4,4-trinitrobutyric acid (TMB) concentrations. To suppress the dissociation of AC, the experiments were conducted in HCl media with pH  $\approx$  2. Addition of water to the double band of AC was disregarded. The effective constants of the addition rate of TNM to AC were calculated for different initial ratios of the reactants. In all experiments the values of the effective constants of the second-order reaction rate were close (the value of  $K_{eff} \times 10^2$  varied from 3.33 to  $3.59 \text{ l} \cdot \text{mol}^{-1} \cdot \text{min}^{-1}$ ). From the results obtained it was concluded that addition of TNM to AC is a second-order reaction which proceeds in three steps

Card 1/2

UDC: 541.127+547.232

KURENTSOVA, G.E.; IVANOVA, I.T.

Vegetation and natural regionalization of the left bank of the middle  
Amur River. Soob. DVFAK SSSR no.17:53-58 '63.

(MIRA 17:9)

1. Dal'nevostochnyy filial im. V.L. Komarova Sibirskskogo otdeleniya  
AN SSSR.

IVANOVA, I.V.

Temperature and atmospheric circulation on Mars. Trudy Sekt.  
astrobot. AN Kazakh.SSR 3:81-87 '55. (MLRA 9:12)

(Mars (Planet))

IVANOVA, I.V.

Surface features on Mars. Trudy Sekt, astrobot, AM Kazakhstan.  
SSR 3:88-89 '55. (MLRA 9:12)

(Mars (Planet))

IVANOVA, I.V.

Problem of the meteorite hypothesis of lunar formations,  
Biul. VAGO no. 16:23-24 '55. (MLR4 8:6)

1. Leningradskoye otdeleniye VAGO.  
(Moon--Surface) (Meteorites)

IVANOVA, I.V.

Rays of lunar craters and elliptic formations. Biul. VAGO no.17:  
29-33 '56. (Moon--Surface) (MIRA 9:9)

YUVACHEVA, N.Ya.; IVANOVA, I.V.; FREGER, D.P., red.izd-va; VAYNTRAUB,D.A.,  
kand.tekhn.nauk,red.

[Cold extrusion; a bibliography]Kholodnoe vydavlivanie; bib-  
liograficheskii ukazatel' literatury. Pod red. D.A.Vain-  
trauba. Leningrad, Leningr. dom nauchno-tekhn.propagandy,  
1962. 25 p. (MIRA 15:8)

(Bibliography--Extrusion (Metals))

EFENDIYEV, G.A.; IVANOVA, I.V.

Electron diffraction study of phase formation and phase transformations in thin Ni - Se films. Fiz. tver. tela 5 no.10:2854-2858 o '63. (MIA 16:11)

1. Institut fiziki AN Azerbaydzhanskoy SSR, Baku.

IVANOVA, Iv.

Bulgaria

Scientific Research Institute of Obstetrics and Gynecology (Naychno-issledovatelski institut po Akusherstvo i Ginekologiya), Director: E. Svetoslavova.

Sofia, Pediatriya, No 1, 1966, pp 29-31.

"Escherichia coli as causative agents of infections in newborn infants."

Co-authors:

L. Vasileva  
N. Katranushkova

IVANOVA, Irina Vladimirovna; TOROPKOV, Vadim Vasil'yevich; VAKS, I.A.,  
dots., red.; FREGER, D.F., red. izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[Aesthetics in technology; a bibliography]Estetika v tekhnike;  
bibliograficheskii ukazatel'. Sost. I.V.Ivanova i V.V.Toropkov.  
Pod red. I.A.Vaks. Leningrad, 1962. 34 p. (MIRA 15:11)

1. Leningradskiy dom nauchno-tehnicheskoy propagandy. Nauchno-  
tekhnicheskaya biblioteka.

(Bibliography--Factories--Lighting)

(Bibliography--Color--Physiological effect)

IVANOVA, I.V.

Making up cards for plant identification. Biol. v shkole no. 7-10 Mr-Ap  
'61. (MIRA 14:3)  
(Botany--Analysis blanks)

IVANOVA, L. V.

Lessons in the study of lower plants. Biol. v shkole no.5:17-26  
S-0 '60. (MIRA 13:11)

1. Orekhovo-Zuyevskiy pedagogicheskiy institut.  
(Botany--Study and teaching)

IVANOVA, I.V.

Making permanent micropreparations of algae. Biol. v shkole  
no.6:76-77 N-D '61. (MIRA 14:11)

1. Orehovo-Zuyevskiy pedagogicheskiy institut.  
(Algae—Study and teaching)

S/137/61/000/012/070/149  
A006/A101

AUTHORS: Efendiyev, G. A., Ivanova, I. V.

TITLE: Electronographic investigation of phase formation in binary Pd-S and Pd-Se layers

PERIODICAL: Referativnyy zhurnal Metallurgiya, no. 12, 1961, 51, abstract 120361 (Dokl. AN AzerbSSR, 1961, v. 17, no. 4, 279 - 281, Azerb. summary)

TEXT: The method of fast electrons (V 60 - 70 kv) was employed to study conditions of phase formation in binary Pb-S and Pb-Se layers. Thin layers, about 300 - 600 Å thick, were obtained by consecutive evaporation and condensation of elements on a celluloid backing in a vacuum of about  $10^{-5}$  mm Hg. The specimens obtained were investigated both prior to and after annealing at about 120°C during 5 - 20 minutes. It is shown that during the deposition of Pb on Se and Se on Pb, a PbSe compound is formed. Annealing does not entail changes in the phase composition. During the deposition of Pb on S the PbS compound is formed without annealing, while during S deposition on Pb, the PbS phase is not formed

Card 1/2

Inst. Physique AS Azerb.

Electronographic investigation...

S/137/61/000/012/070/149  
A006/A101

without annealing, S deposited on a celluloid backing proved to be amorphous, and crystalline when deposited on Pb. It is assumed that this is caused by the effect of the nature of the backing.

B. Turovskiy

[Abstracter's note: Complete translation]

Card 2/2

3560...

S/020/62/143/001/019/030

B104/B108

18.11.66

AUTHORS: Efendiyev, G. A., and Ivanova, I. V.

TITLE: Phase transformations in thin Ni-Se layers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 95 - 96

TEXT: By means of electron diffraction studies it can be proved that if Ni and Se from two different sources are condensed simultaneously onto backings the system Ni-Se forms  $\text{NiSe}_2$ ,  $\text{NiSe}$  ( $\beta$ -modification), and  $\text{Ni}_3\text{Se}$  according to the concentrations of the components. No  $\gamma$ -modification of  $\text{NiSe}$  was observed. The phase formation and the phase transformations of Se double layers on Ni were studied on a series of photographies (3 pictures within 12 minutes at temperatures between 20 and  $400^{\circ}\text{C}$ ). In the condensation of Se on Ni  $\text{NiSe}_2$  arises in the form of fine crystals. At temperatures above  $150^{\circ}\text{C}$   $\text{NiSe}_2$  passes into  $\beta$ - $\text{NiSe}$ , which is the only phase existing above  $300^{\circ}\text{C}$ . On further heating in vacuo this phase gradually passes into  $\text{Ni}_3\text{Se}_2$ . The following scheme is given:

Card 1/2

Phase transformations in thin...

S/020/62/143/001/019/030  
B104/B108

(Ni + Se)  $\xrightarrow[\text{finely disperse}]{\text{condensation at } 20^\circ\text{C}}$  NiSe<sub>2</sub>  $\xrightarrow{\text{heating to } 150^\circ\text{C}}$  NiSe<sub>2</sub>  $\xrightarrow{\text{heating to } 150 - 300^\circ\text{C}}$  crystalline

$\beta$ -Ni<sub>3</sub>Se  $\xrightarrow[\text{crystalline}]{\text{heating to } 300 - 400^\circ\text{C}}$  Ni<sub>3</sub>Se<sub>2</sub>  $\xrightarrow{\text{crystalline}}$

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ASSOCIATION: Institut fiziki Akademii nauk AzerbSSR (Institute of Physics of the Academy of Sciences Azerbaydzhanskaya SSR)

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"Ovum Divisions of *Aurelia aurita* (Scyphozoa),  
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"DOK AF NEAR 222  
Found two different types of division in *Aurelia aurita* (Jellyfish) from the White Sea. In one case, typical radial division occurs, forming two approximately equal blastomeres. In second case, first split produces two unequal blastomeres, and second split divides only one

四庫全書

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TESS/Medical - self-treatment (see below)

blastomere, forming three blastomeres.  
By Acad Ye. N. Pavlovskiy, 2 Feb 49.

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